

Application No. 10/578129
Responsive to the office action dated May 15, 2009

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1-2. (Cancelled)

3. (Currently Amended) ~~[[The]] A coating tool, as set forth in claim 2, further comprising:~~

an oily ink;

a backflow inhibiting material, the backflow inhibiting material being in contact with said oily ink and moving by following the fluidity of said oily ink in an ink containment tube, the backflow inhibiting material comprising

at least one base material component selected from the group consisting of diglycerin/ethylene oxide adducts and diglycerin/propylene oxide adducts, and

a gel composition which comprises polyacrylic acids, the polyacrylic acids being present in an amount of 0.1 to 3 wt % with respect to the total amount of said backflow inhibiting material; and

microparticle silica, and

wherein as said polyacrylic acids are[[,]] composed of a plurality of polyacrylic acids with different average molecular weight and comprise[[ing]] polyacrylic acid whose having an average molecular weight is not between 1,000,000 greater than and 2,000,000.

4. (Currently Amended) ~~[[The]] A coating tool, as set forth in claim 2, further comprising:~~

an oily ink;

a backflow inhibiting material, the backflow inhibiting material being in contact with said oily ink and moving by following the fluidity of said oily ink in an ink containment tube, the backflow inhibiting material comprising

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at least one base material component selected from the group consisting of diglycerin/ethylene oxide adducts and diglycerin/propylene oxide adducts, and a gel composition which comprises polyacrylic acids, the polyacrylic acids being present in an amount of 0.1 to 3 wt % with respect to the total amount of said backflow inhibiting material; and

microparticle silica, and

wherein as said polyacrylic acids are[[,]] composed of a plurality of polyacrylic acids with different average molecular weight and comprise[[ing]] polyacrylic acid whose having an average molecular weight that is not less greater than 2,000,000 and polyacrylic acid whose having an average molecular weight is not between 1,000,000 greater than and 1,500,000.

5. (Currently Amended) The coating tool as set forth in claim [[1]]3, wherein said base material component is contained in 87 to 99.9 wt % with respect to the total amount of said backflow inhibiting material.

6. (Currently Amended) The coating tool as set forth in claim [[1]]3, wherein said backflow inhibiting material contains microparticle silica in 1 to 10 wt % with respect to the total amount of the backflow inhibiting material.

7. (Currently Amended) The coating tool as set forth in claim [[1]]3, wherein the viscosity of said oily ink is not less than 700mPa·s when the shearing rate is 0.1 (1/s) and not greater than 500 mPa·s when the shearing rate is 100(1/s).

8. (Currently Amended) The coating tool as set forth in claim [[1]]3, wherein said oily ink comprises at least either of aliphatic hydrocarbon-based solvent or alicyclic hydrocarbon-based solvent.

9. (Currently Amended) The coating tool as set forth in claim [[1]]3, wherein said ink containment tube has a boundary which contacts with said oily ink and said backflow

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inhibiting material and at least comprising polyvinylalcohol among polyvinyl alcohol and fluorine-based surfactant in said boundary.

10. (Currently Amended) The coating tool as set forth in claim 9, wherein said ~~surfactant~~ boundary is composed of a coating layer formed on an inner wall surface of said ink containment tube and at least polyvinyl alcohol among said polyvinyl alcohol and fluorine-based surfactant is contained in said coating layer.

11. (Currently Amended) ~~[[The]]~~ A coating tool, ~~as set forth in claim 9,~~ comprising:

an oily ink;

a backflow inhibiting material, the backflow inhibiting material being in contact with said oily ink and moving by following the fluidity of said oily ink in an ink containment tube, the backflow inhibiting material comprising

at least one base material component selected from the group consisting of diglycerin/ethylene oxide adducts and diglycerin/propylene oxide adducts, and

a gel composition which comprises polyacrylic acids, the polyacrylic acids being present in an amount of 0.1 to 3 wt % with respect to the total amount of said backflow inhibiting material;

wherein said ink containment tube has a boundary which is in contact with said oily ink and said backflow inhibiting material, and

wherein said boundary includes polyvinyl alcohol and fluorine-based surfactant in said boundary.

12. (Currently Amended) The coating tool as set forth in claim ~~[[9]]~~11, wherein said polyvinyl alcohol comprises one or more ionic polyvinyl alcohol selected from a nonionic group, a cationic group, and an anionic group.

13. (Currently Amended) The coating tool as set forth in claim ~~[[9]]~~11, wherein said fluorine-based surfactant comprises one or more ionic fluorine-based surfactant selected from the nonionic group, the cationic group, and the anionic group.

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14. (Currently Amended) The coating tool as set forth in claim ~~[[9]]11~~, wherein said fluorine-based surfactant comprises ionic fluorine-based surfactant and said polyvinyl alcohol comprises modified polyvinyl alcohol which has opposite ionicity to that of said surfactant.
15. (Original) The coating tool as set forth in claim 14, wherein said polyvinyl alcohol is a cationic modified polyvinyl alcohol and said fluorine-based surfactant is an anionic fluorine-based surfactant or said polyvinyl alcohol is an anionic modified polyvinyl alcohol, and said fluorine-based surfactant is a cationic fluorine-based surfactant.
16. (Currently Amended) The coating tool as set forth in claim ~~[[9]]11~~, wherein said ink containment tube is made up of a resin selected from a group consisting of a nylon resin, a polyethylene terephthalate resin, and a polybutylene terephthalate resin.
17. (Currently Amended) The coating tool as set forth in claim ~~[[9]]11~~, wherein said oily ink comprises a colorant, a resin, an organic solvent, and a gelling agent.
18. (Original) The coating tool as set forth in claim 17, wherein said colorant comprises titanium oxide.
19. (Currently Amended) The coating tool as set forth in claim ~~[[9]]11~~, wherein said oily ink comprises at least either of organic solvent of aliphatic hydrocarbon-based solvent or alicyclic hydrocarbon-based solvent.
20. (Original) The coating tool as set forth in claim 17, wherein the above mentioned gelling agent is a dissolvable gelling agent whose solubility (20°C) to the above mentioned organic solvent is 0.1 to 20 wt % and the ink viscosity is not less than 700mPa·s when the shearing rate is 0.1 (1/s) and the ink viscosity is not greater than 500mPa·s when the shearing rate is 100 (1/s).

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21. (Currently Amended) The coating tool as set forth in claim 17, wherein the oily ink comprises a metal soap as a gelling agent and at least either of aliphatic hydrocarbon-based solvent ~~[[of]]~~or alicyclic hydrocarbon-based solvent as organic solvent.

22. (Currently Amended) ~~[[The]]~~ A coating tool containing

an oily ink; ~~and~~

a backflow inhibiting material, the back flow inhibiting material being which in
contact~~[[s]]~~ with said oily ink~~[[,]]~~; and

an ink containment tube, the oily ink and the backflow inhibiting material being
contained within the ink containment tube,

wherein the ~~above-mentioned~~ ink containment tube is made up of a resin selected from the group of a nylon resin, a polyethylene terephthalate resin, and polybutylene terephthalate resin,

~~the above-mentioned~~ ink containment tube has a boundary which is in contact~~[[s]]~~ with said oily ink and said backflow inhibiting material,

polyvinyl alcohol and fluorine-based surfactant ~~[[is]]~~are contained in said ~~surfactant~~boundary,

ionic fluorine-based surfactant is contained as said fluorine-based surfactant,

modified polyvinyl alcohol which has opposite ionicity to that of said surfactant is contained as said polyvinyl alcohol,

said oily ink comprises a colorant, a resin, an organic solvent and a gelling agent, ~~and~~ at least either of aliphatic hydrocarbon-based solvent or alicyclic hydrocarbon-based solvent ~~is comprised~~ being included as said organic solvent, and a metal soap ~~is comprised~~ being included as said gelling agent,

said backflow inhibiting material comprises

at least one base material component selected from the group of diglycerol/ethylene oxide adducts and diglycerol/propylene oxide adducts and

a gelling composition comprising polyacrylic acid, ~~and the above~~
~~mentioned polyacrylic acid is contained~~ being included in an amount of 0.1 to 3 wt %
with respect to the total amount of said backflow inhibiting material.

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23. (Cancelled)

24. (Currently Amended) The coating tool as set forth in claim ~~[[1]]~~3, having a pen tip at one end of said ink containment tube and having a pressure device which pressurizes at least ~~[[an]]~~the oily ink contained in said ink containment tube at the other end.

25. (Original) The coating tool as set forth in claim 21, wherein the above mentioned metal soap is aluminum 2-ethylhexanoate.

26. (Original) The coating tool as set forth in claim 22, wherein the above mentioned metal soap is aluminum 2-ethylhexanoate.

27. (Cancelled)

28. (Original) A backflow inhibiting material for an oily ink made up of at least one base material component selected from the group of diglycerol/ethylene oxide adducts and diglycerol/propylene oxide adducts and a gelling agent comprising microparticle silica, polyacrylic acid whose average molecular weight is not less than 2,000,000 and polyacrylic acid whose average molecular weight is not greater than 1,500,000, and the above mentioned polyacrylic acid is contained in 0.1 to 3 wt % with respect to the total amount of said backflow inhibiting material.

29. (Cancelled)

30. (New) The coating tool as set forth in claim 4, wherein said base material component is contained in 87 to 99.9 wt % with respect to the total amount of said backflow inhibiting material.

31. (New) The coating tool as set forth in claim 4, wherein said backflow inhibiting material contains microparticle silica in 1 to 10 wt % with respect to the total amount of the backflow inhibiting material.

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32. (New) The coating tool as set forth in claim 4, wherein the viscosity of said oily ink is not less than 700mPa·s when the shearing rate is 0.1 (1/s) and not greater than 500 mPa·s when the shearing rate is 100(1/s).

33. (New) The coating tool as set forth in claim 4, wherein said oily ink comprises at least either of aliphatic hydrocarbon-based solvent or alicyclic hydrocarbon-based solvent.

34. (New) The coating tool as set forth in claim 4, wherein said ink containment tube has a boundary which contacts with said oily ink and said backflow inhibiting material and at least comprising polyvinyl alcohol among polyvinyl alcohol and fluorine-based surfactant in said boundary.

35. (New) The coating tool as set forth in claim 4, wherein said surfactant is composed of a coating layer formed on an inner wall surface of said ink containment tube and at least polyvinyl alcohol among said polyvinyl alcohol and fluorine-based surfactant is contained in said coating layer.